

WHAT IS CLAIMED IS:

1. An acid-resistant sulfur material comprising a modified sulfur and an aggregate, said modified sulfur having been prepared by polymerizing sulfur with a sulfur modifier,

wherein said aggregate is an inorganic aggregate comprising at least Si, and

wherein a weight ratio of Ca, Si, and Al in the aggregate in terms of oxides expressed as $\text{CaO}/(\text{SiO}_2+\text{Al}_2\text{O}_3)$ is not higher than 0.2.

2. The acid-resistant sulfur material of claim 1, wherein a ratio of said modified sulfur to said aggregate in the sulfur material is 1 to 5 : 5 to 9 by weight.

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3. The acid-resistant sulfur material of claim 1, wherein said aggregate comprises one or more members selected from the group consisting of coal ash, silica sand, silica, quartz powders, gravel, sand, clay minerals, and glass powders.

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4. The acid-resistant sulfur material of claim 1, wherein said aggregate comprises not less than 5 wt% of an aggregate having an average particle size of not larger than 100 μm .

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5. The acid-resistant sulfur material of claim 1 further comprising one or more members selected from the group

consisting of fiber filling, fibrous particles, flake particles, and mixtures thereof.

6. A method of constructing an acid-resistant sulfur
5 material, comprising the steps of:

producing a civil engineering or construction product with an acid-resistant sulfur material of claim 1, and placing said product in an environment of not higher than pH 3.5.

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7. The method of claim 6, wherein said civil engineering or construction product is a Hume pipe, manhole, box culvert, tile, block, or panel.